

90207 Ambulatory Blood Pressure Monitor



Summary

Uses oscillometry, the most widely accepted and validated method of automatic NIBP measurement.

Measures systolic, diastolic, mean blood pressure, and heart rate over a period of 24 or 48 hours or longer.

No chest electrodes or microphone — reduces operating cost, improves patient comfort and measurement reliability.

Compact size, light weight, and quiet operation assures patient compliance.

Independently programmable measurement periods and inflation frequencies.

Telecommunications feature allows remote programming and data retrieval.

Real-time clock facilitates diary notations.

Features

Controls, Connectors, and Indicators

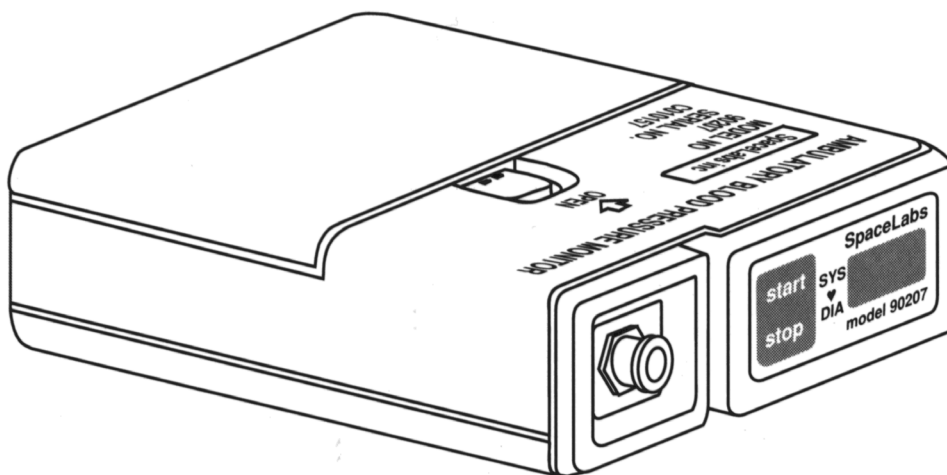
On/Off Two-position slide switch

“On” Normal operation; automatically initiates measurements at pre-programmed time intervals

“Off” Standby mode; no measurements, data is retained

Start/Stop Pushbutton depressed to begin manual blood pressure measurement if none in progress; if depressed during blood pressure measurement, measurement in progress stops.

Audio Audible tone indicates start and end of a cycle when tone is selected.



General

Measurement Ranges Heart Rate: 40 to 180 bpm; Pressure: 70 to 285 mmHg for systolic, 40 to 200 mmHg for diastolic, and 60 to 240 mmHg for mean arterial values.

Pressure Measurement Method Oscillometric

Automatic Measurement Intervals Adjustable from 6 minutes (minimum) to 120 minutes (maximum); up to 12 different periods can be independently programmed, including an interval during which no readings are taken.

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Measurement Time Typically 35-50 seconds

Number of Measurements Approximately 240 measurements using standard size adult cuff; stores results of 240 readings in memory.

Cuff Pressure Initial inflation to 165 mmHg; thereafter, cuff inflates to approximately 30 mmHg above the previous systolic.

Maximum Cuff Pressure Up to 300 ± 10 mmHg; can be set during initialization.

Autozeroing Pressure automatically zeroed before each reading.

Artifact Rejection Discriminates between pressure signals, patient movement, and respiratory artifact.

Cuff Inflation/Deflation Inflation and deflation rates under microprocessor control.

Data Storage System Nonvolatile CMOS RAM; information retained until reprogrammed; timing of events provided by real-time clock.

Digital Display 4-digit, 7-segment, liquid crystal display; systolic, diastolic, and heart rate information alternately displayed; time display and blinking colon provided to indicate when unit is on.

Patient Safety Measurement cycle limited by hardware to 256 seconds and software to 180 seconds maximum; pneumatic system open when off; air hose detachable at cuff; absolute maximum pressure is limited to 310 mmHg by both hardware and software.

Classification Type BF

Electrical Requirements

Power Requirement Four AA-size, non-rechargeable or rechargeable batteries

Physical Dimensions

| | |
|---------|---------------------------------------|
| Height: | 1.1 in (2.8 cm) |
| Depth: | 4.5 in (11.4 cm) |
| Width: | 3.4 in (8.6 cm) |
| Weight: | 12.2 oz (347.0 g) including batteries |

Environmental Requirements

Storage

| | |
|--------------|--|
| Temperature: | -29° to 149° F (-34° to 65° C) |
| Humidity: | 95% (non-condensing) |
| Altitude: | -500 to 10,000 ft (-152 to 3,049 m) |

Operating

| | |
|--------------|--|
| Temperature: | 32° to 104° F (0° to 40° C) |
| Humidity: | 95% (non-condensing) |
| Altitude: | -500 to 10,000 ft (-152 to 3,049 m) |

Regulatory Approvals

Complies with AAMI, British Hypertension Society, PBT, EN1060-1, EN1060-3, and EN60601-2-30; CE marked in accordance with the Medical Device Directive, 93/42/EEC.



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